

Right Triangles: A Perpendicular & a Slant

Instructions: Answer these questions.

1. What is difference between a perpendicular and a slant?
2. How is a side opposite an angle related to that angle?
3. Complete this sentence: *A larger side will be opposite*
4. Which will be larger, a perpendicular or a slant if they come from the same point?
5. Complete this proof:

Prove that any slant will be larger than a perpendicular from the same point.

proof		picture
given	$\triangle ABC; AC \perp CB$	
problem	Prove: $AB > AC$	
Solution	$\angle C$ is opposite AB and right $\angle C > \angle B$	Conclusion given A larger angle will have a larger side

6. What is the sum of the three angles of a triangle?
7. What is the exterior of a triangle equal to?